# ThinkPad® T420 4177 (TopSeller)



| Type-model | Processor | Memory | Wide-screen display | Camera | Disk SATA GB[8] rpm | PCIe Mini Card WLAN | PCIe Mini Card WWAN/ mSATA | Modem | IEEE 1394 | Smart Card Reader | Finger print reader | Blue-tooth | Bat-tery cells | Intel AMT | Intel vPro | Preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4177-Q8U | i5-2520M | 4GBx1 | 14.0" HD+ | 720p | 160G SSD | Intel 6300[28] | upg | None | 1394 | Smart | Finger | Blue | 6 | iAMT | vPro | Pro 64 |
| 4177-Q5U | i5-2520M | 4GBx1 | 14.0" HD | 720p | 320G 7200 | Intel 6205[28] | upg | None | | | | | 6 | iAMT | vPro | Pro 64 |
| 4177-Q2U | i5-2540M | 2GBx2 | 14.0" HD | 720p | 320G 7200 | Intel 6205 | upg | None | | | Finger | Blue | 6 | iAMT | vPro | Pro 64 |
| 4177-QKU | i5-2410M | 4GBx1 | 14.0" HD+ | 720p | 320G 7200 | Intel 1000 | upg | None | | | | | 6 | | | Pro 64 |
| 4177-QJU | i5-2410M | 4GBx1 | 14.0" HD | 720p | 320G 7200 | Intel 1000 | upg | None | | | | Blue | 6 | | | Prem 64 |
| ☞ 4177-QLU | i5-2540M | 4GBx1 | 14.0" HD | 720p | 320G 7200 | Intel 1000 | upg | None | | | | | 6 | | | Pro 64 |

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Positioning | *Premiere performance; two spindles* |
| Processor | **Intel® Core™ i5-2410M processor (dual-core, 2.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology<br>**Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology<br>**Intel Core i5-2540M processor (dual-core, 2.60GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology |
| Memory | 8GB max[7] / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets |
| Optical | DVD burner, 12.7mm Ultrabay Enhanced, removable |
| Ultrabay | One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access |
| SATA disk | *Some:* Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high<br>*Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™<br>*All:* removable, upgradable, supports the second disk, Shock Mounted Hard Drive |
| mSATA™ SSD | None |
| Widescreen display | *Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio<br>*Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio |
| Camera | HD720p resolution, wider view angle, low light sensitive, fixed focus |
| Graphics | **Intel HD Graphics 3000** in processor,<br>external analog monitor support via VGA DB-15 connector and<br>digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915);<br>supports dual independent display;<br>*Maximum external resolution:* 2560x1600 (DisplayPort)@60Hz;<br>2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) |
| Keyboard | 7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar[13], magnifying glass |
| Touchpad | UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions |
| Dimensions[3] | *14.0W" (WxDxH):* 13.4" x 9.17" x 1.18–1.20"; 340.5mm x 233.0mm x 30.1–30.5mm |
| Weight[2] | *4-cell:* from 4.60 lb (2.09kg); *6-cell:* from 4.79 lb (2.17kg); *9-cell:* from 5.17 lb (2.35kg) |
| Case material | *Display cover:* Carbon-fiber / Glass-fiber hybrid;<br>*Bottom:* Carbon-Fiber Reinforced Plastic |
| Battery - type | Lithium Ion 4-cell, 6-cell, or 9-cell, supports optional Slice battery (57Y4545) as 2nd battery |
| Battery - life[10] | *6-cell:* up to 9.0 hr; *9-cell:* up to 15.0 hr; *9-cell plus Slice battery:* up to 30.0 hr |
| Chipset | **Mobile Intel QM67 Express Chipset** |
| ExpressCard | One slot (ExpressCard/34) |
| Smart Card read | *Some:* Smart Card reader |
| Multicard reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| Ports | Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) |
| PCIe Mini Card | Two PCI Express Mini Card slots |
| WLAN[4] | *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2<br>*Some:* 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2<br>*Some:* 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 |
| WWAN | Wireless WAN upgradable |
| Modem | None |
| IEEE 1394 | *Some:* IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) |
| Bluetooth™ | *Some:* Bluetooth 3.0 wireless, LED indicator |
| Ethernet | *Non-vPro model:* Intel 82579LF Gigabit Network Connection (Lewisville), PHY, PCIe x1<br>*vPro model:* Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 |
| Intel AMT | *Some:* Intel Active Management Technology (iAMT) |
| Audio support | High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack |
| Security | Power-on password, hard disk password, supervisor password, security keyhole |
| Security chip | Trusted Platform Module, TCG 1.2-compliant |
| Fingerprint reader | *Some:* UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip |
| Limited warranty[12] | **1-year** - depot repair service / service upgrades[22] available |

**Preloaded operating system**[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

**Ready to install applications**[14] (all OSes; only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox
- Lenovo SimpleTap

**Preloaded applications**[14] (all OSes; only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
ThinkPad Roll Cage (one-piece magnesium frame)
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

For compatible accessories, please go to O-T420 sheet;

For ThinkPlus™,[22] service upgrade options, please go to S-TA sheet

See footnotes for more detailed information

☞ US model announced May 3, 2011; previous models on February 22 or April 5, 2011

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